## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-5. (Canceled)
- 6. (Previously Presented) An uplink synchronization detecting method of a mobile communication system comprising:

calculating a first pilot bit error rate (BER) of an uplink allocated to a finger, for a first section;

comparing the first pilot BER calculated for the first section with a first synchronization detection threshold value set for the first section;

judging the uplink is in synchronization status when the first pilot BER is smaller than the first synchronization detection threshold value;

calculating a second pilot BER of the uplink for a second section when the first pilot BER is not smaller than the first synchronization detection threshold value;

comparing the second pilot BER calculated for the second section with a second synchronization detection threshold value set for the second section; and

judging the uplink is in synchronization status when the second pilot BER is smaller than the second synchronization detection threshold value.

7. (Previously Presented) The method of claim 6, further comprising:

comparing the first pilot BER and a synchronization failure threshold value, when
the second pilot BER is not smaller than the second synchronization detection threshold value;
and

judging the uplink is out of synchronization if the first pilot BER is greater than the synchronization failure threshold value.

- 8. (Original) The method of claim 6, wherein the first and second sections comprise frames or slots.
- 9. (Original) The method of claim 8, wherein the second section includes the first section and a prescribed numbers of frames to be accumulated to the first section.
- 10. (Previously Presented) The method of claim 8, wherein the second section includes the first section and a prescribed number of slots to be accumulated to the first section.
- 11. (Original) The method of claim 6, further comprising other sections in addition to the first and second sections.
- 12. (Original) The method of claim 6, wherein a length of the section for calculating the pilot BER corresponds to the synchronization detection threshold value.

- 13. (Original) The method of claim 12, wherein as the length of the section for calculating the pilot BER decreases, the synchronization detection threshold value decreases.
- 14. (Original) The method of claim 6, wherein the first synchronization detection threshold value is smaller than the second synchronization detection threshold value.
  - 15. (Currently Amended) A mobile communication system, comprising:

first logic configured to compare a synchronization detection threshold value set for each corresponding section of a time period, wherein a pilot bit error rate is calculated for the each corresponding section; and

second logic configured to determine a synchronization detection for each section based on a result of said comparison, wherein the first logic includes:

logic configured to calculate a pilot bit error rate (BER) of an uplink allocated to a finger, for a first section, and

logic configured to compare the first pilot BER calculated for the first section with a first synchronization detection threshold value set for the first section, and wherein the second logic includes:

logic configured to determine the uplink is in synchronization status if the first pilot BER is smaller than the first synchronization detection threshold value, wherein the first logic further includes:

logic configured to calculate a second pilot BER of the uplink for a second section when the first pilot BER is not smaller than the first synchronization detection threshold value, and

logic configured to compare the second pilot BER calculated for the second section with a second synchronization detection threshold value set for the second section, and wherein the second logic further includes:

logic configured to determine the uplink is in synchronization status when the second pilot BER is smaller than the second synchronization detection threshold value.

- 16. (Original) The system of claim 15, wherein the time period includes at least one of a plurality of frames and a plurality of slots.
- 17. (Previously Presented) The system of claim 15, wherein when the result of the comparison indicates the pilot bit error rate is smaller than the synchronization detection threshold value set for the corresponding section, synchronization is indicated.
- 18. (Previously Presented) The system of claim 15, wherein when the result of the comparison for every section of said time period indicates the pilot bit error rate of every section is not smaller than a corresponding synchronization detection threshold value set for every

section, a pilot bit error rate calculated for a first section is compared with a synchronization failure threshold value, and when the pilot bit error rate of the first section is greater than the synchronization failure threshold value, a synchronization failure is indicated.

19-20. (Canceled)

21. (Currently Amended) The system of claim [[20]] <u>15</u>, further comprising:

logic configured to compare the first pilot BER and a synchronization failure threshold value, when the second pilot BER is not smaller than the second synchronization detection threshold value; and

logic configured to determine the uplink is out of synchronization if the first pilot BER is greater than the synchronization failure threshold value.

- 22. (Currently Amended) The system of claim [[20]] <u>15</u>, wherein the first and second sections comprise frames or slots.
- 23. (Currently Amended) The system of claim [[20]] <u>15</u>, wherein the second section includes the first section and additional frames to be added to the first section.

- 24. (Currently Amended) The system of claim [[20]] 15, wherein the second section includes the first section and additional slots to be added to the first section.
- 25. (Currently Amended) The system of claim [[20]] 15, wherein the first synchronization detection threshold value is smaller than the second synchronization detection threshold value.
- 26. (Original) The system of claim 15, wherein a length of the section for calculating the pilot BER corresponds to the synchronization detection threshold value.
- 27. (Currently Amended) The system of claim [[25]] <u>26</u>, wherein as the length of the section for calculating the pilot BER decreases, the synchronization detection threshold value decreases.
  - 28. (Original) The system of claim 15, wherein the system is a base station.